

N<sup>o</sup> 22,022



A.D. 1899

*Date of Application, 3rd Nov., 1899*

*Complete Specification Left, 24th July, 1900—Accepted, 29th Sept., 1900*

PROVISIONAL SPECIFICATION.

Improvements in Artificial Teeth or Tooth Crowns.

I, HERMANN FRIEDLAND, of No. 21, Gutenbergsplatz, Mayence, in the Empire of Germany, Dentist, do hereby declare the nature of this invention to be as follows:—

5 This invention has for its object artificial tooth-crowns which are adapted to be used for making complete artificial sets or rows of teeth or bridged teeth.

The actual tooth-crown is provided on both sides with a not too low strip of metal, which is so let into the crown as to form with it a completely level surface.

The metal strips situated on both sides of the tooth-crown may be connected together on the rear side by a bent piece or strip also let into the tooth crown.

10 When separate tooth-crowns are to be connected one with another, this is effected by simply soldering together the adjacent lateral strips of adjacent tooth-crowns until the desired number of tooth-crowns are connected one to another in the desired form.

15 The separate tooth-crowns are well fitted to the jaw, and do not require to be held thereon by palate plates or the like, but are screwed on the roots or stumps of teeth or hooked fast to sound teeth.

The screwing of tooth-crowns to the roots or stumps of old teeth is however already in itself known.

20 For this purpose a perforated tooth-crown is employed which is pushed over a screwed pin soldered or let into the tooth root or stump in question, and drawn tight from above by means of a small nut.

25 In the making of a closed set or row of teeth a hollow attachment crown is arranged at both ends and in the middle, and the whole row of teeth is fastened in the manner hereinbefore described on the jaw by means of this fastening crown.

30 If the bridging over of a sound tooth is to be effected this is done by connecting the rear sides of the artificial tooth-crowns which are located on both sides of the tooth to be bridged over by means of a bar right along the back of the sound tooth. In this manner the most natural replacement of teeth in a defective row, or of only some teeth in proximity to one another, may be effected by means of these improved tooth-crowns and in the shortest possible time.

Dated this 2nd day of November 1899.

WM. P. THOMPSON & Co.,  
Of 6, Lord Street, Liverpool, Agents for the Applicant.



*Friedland's Improvements in Artificial Teeth or Tooth Crowns.*

## COMPLETE SPECIFICATION.

## Improvements in Artificial Teeth or Tooth Crowns.

I, HERMANN FRIEDLAND, of No. 21, Gutenbergsplatz, Mayence, in the Empire of Germany, Dentist, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

This invention has for its object artificial tooth-crowns which are adapted to 5  
be used for making complete artificial sets or rows of teeth or bridged teeth.

In the accompanying drawings:

Fig. 1 is an elevation of a single tooth crown;

Fig. 2 a plan view of same

Fig. 3 a longitudinal section of a perforated tooth crown as intended to be 10  
employed for screwing fast on the tooth stump;

Fig. 4 shows a plan view of a combination of several such tooth crowns into  
a closed set of teeth and their method of attachment;

Fig. 5 shows the bridging over of a sound tooth.

As may be seen from these drawings the actual tooth-crown *a* is provided on 15  
both sides with a not too low strip of metal *b* and *b*<sup>1</sup> respectively, which is so let  
into the crown as to form with it a completely level surface.

The metal strips *b* and *b*<sup>1</sup> situated on both sides of the tooth-crown may be con-  
nected together on the rear side by a bent piece or strip *c* also let into the tooth  
crown as shown in Fig. 2 in dotted lines. 20

When separate tooth-crowns are to be connected one with another as shown  
in Fig. 3 this is effected by simply soldering together the adjacent lateral strips  
of adjacent tooth-crowns until the desired number of tooth-crowns are connected  
one to another in the desired form.

The separate tooth-crowns are well fitted to the jaw, and do not require to be 25  
held thereon by palate plates or the like, but as may be seen in Figures 3 and 4  
are screwed on the roots or stumps of teeth or hooked fast to sound teeth.

The screwing of tooth-crowns to the roots or stumps of old teeth is however  
already in itself known.

For this purpose a perforated tooth-crown (see Fig. 3) is employed which is 30  
pushed over a screwed pin soldered or let into the tooth root or stump in question,  
and drawn tight from above by means of a small nut.

In the making of a closed set or row of teeth a hollow attachment crown is  
arranged at both ends and in the middle, and the whole row of teeth is fastened  
in the manner hereinbefore described on the jaw by means of this fastening 35  
crown.

If the bridging over of a sound tooth is to be effected, this is done as shown in  
Fig. 5 by connecting the rear sides of the artificial tooth-crowns *b* which are  
located on both sides of the tooth to be bridged over by means of a bar *d* right  
along the back of the sound tooth. In this manner the most natural replacement 40  
of teeth in a defective row, or of only some teeth in proximity to one another,  
may be effected by means of these improved teeth-crowns and in the shortest  
possible time.

Having now particularly described and ascertained the nature of my said  
invention and in what manner the same is to be performed, I declare that what 45  
I claim is:—

The improvement in artificial teeth and tooth-crowns, which consists in metal

---

*Friedland's Improvements in Artificial Teeth or Tooth Crowns.*

---

strips (*b b*<sup>1</sup>) being let in or attached to both sides of the teeth or tooth crowns in such a way as to enable a direct lateral soldering to be effected while avoiding intermediate spaces, substantially as hereinbefore set forth.

Dated this 23rd day of July 1900.

5

W. P. THOMPSON & Co.,  
Of 6, Lord Street, Liverpool, Agents for the Applicant.

---

Redhill: Printed for Her Majesty's Stationery Office, by Malcomson & Co., Ltd.—1900.









Fig: 1~

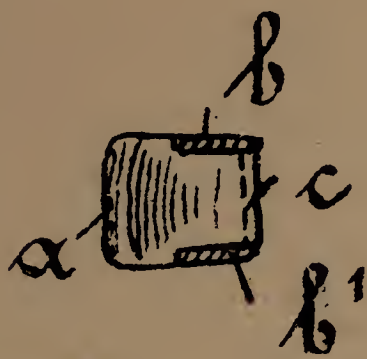


Fig: 2~



Fig: 3~

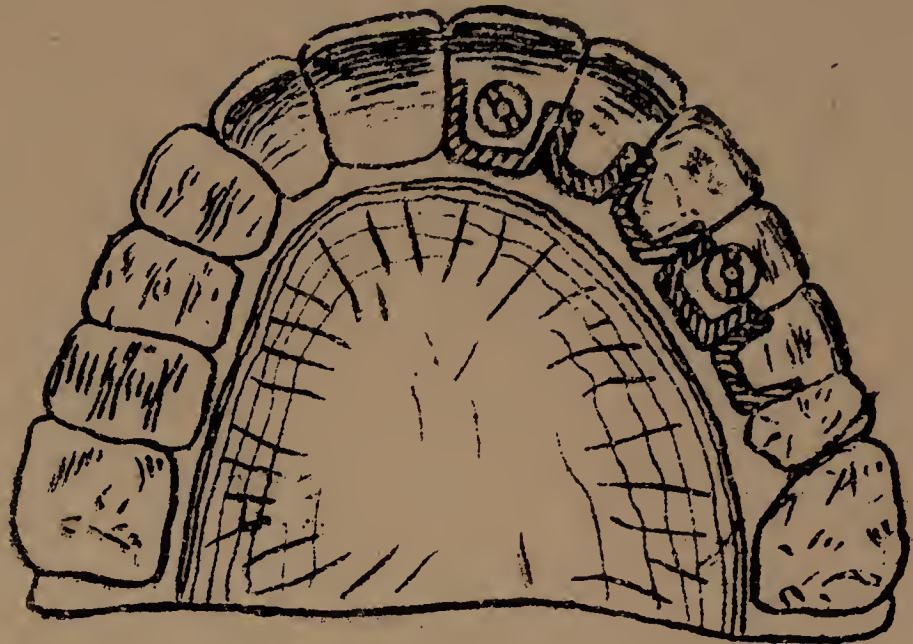


Fig: 4~

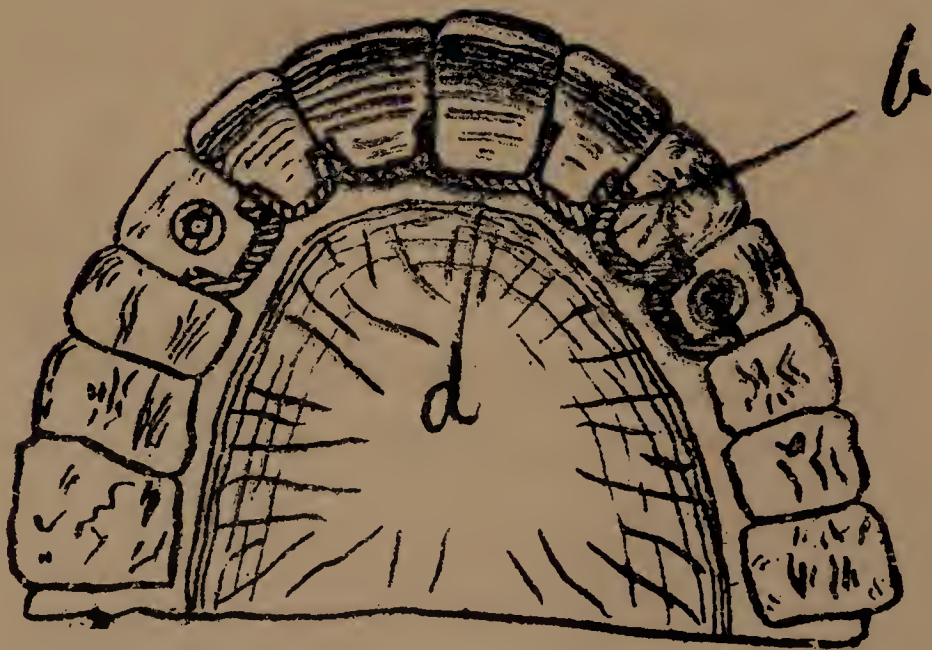


Fig: 5~

[This Drawing is a reproduction of the Original on a reduced scale.]

